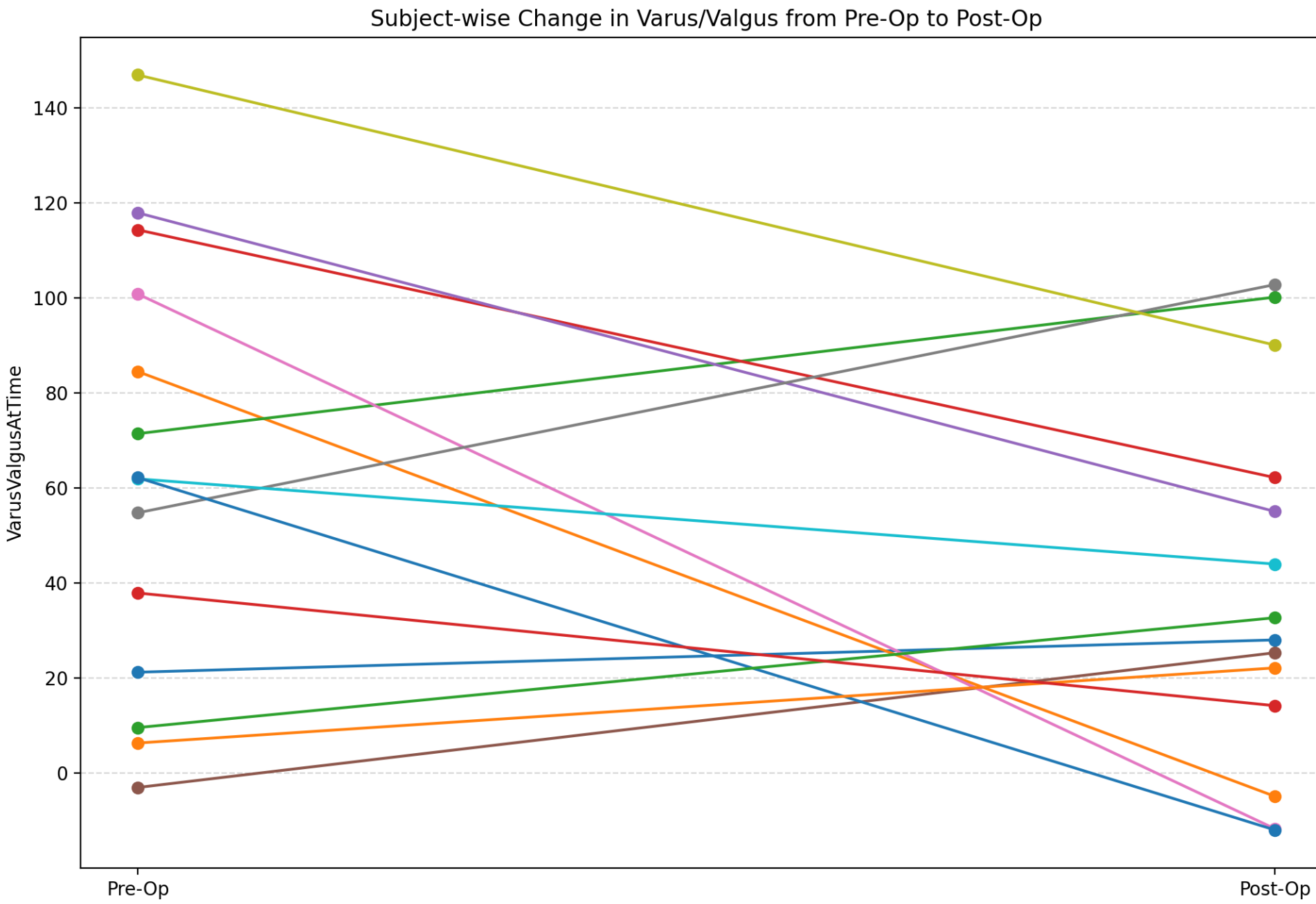
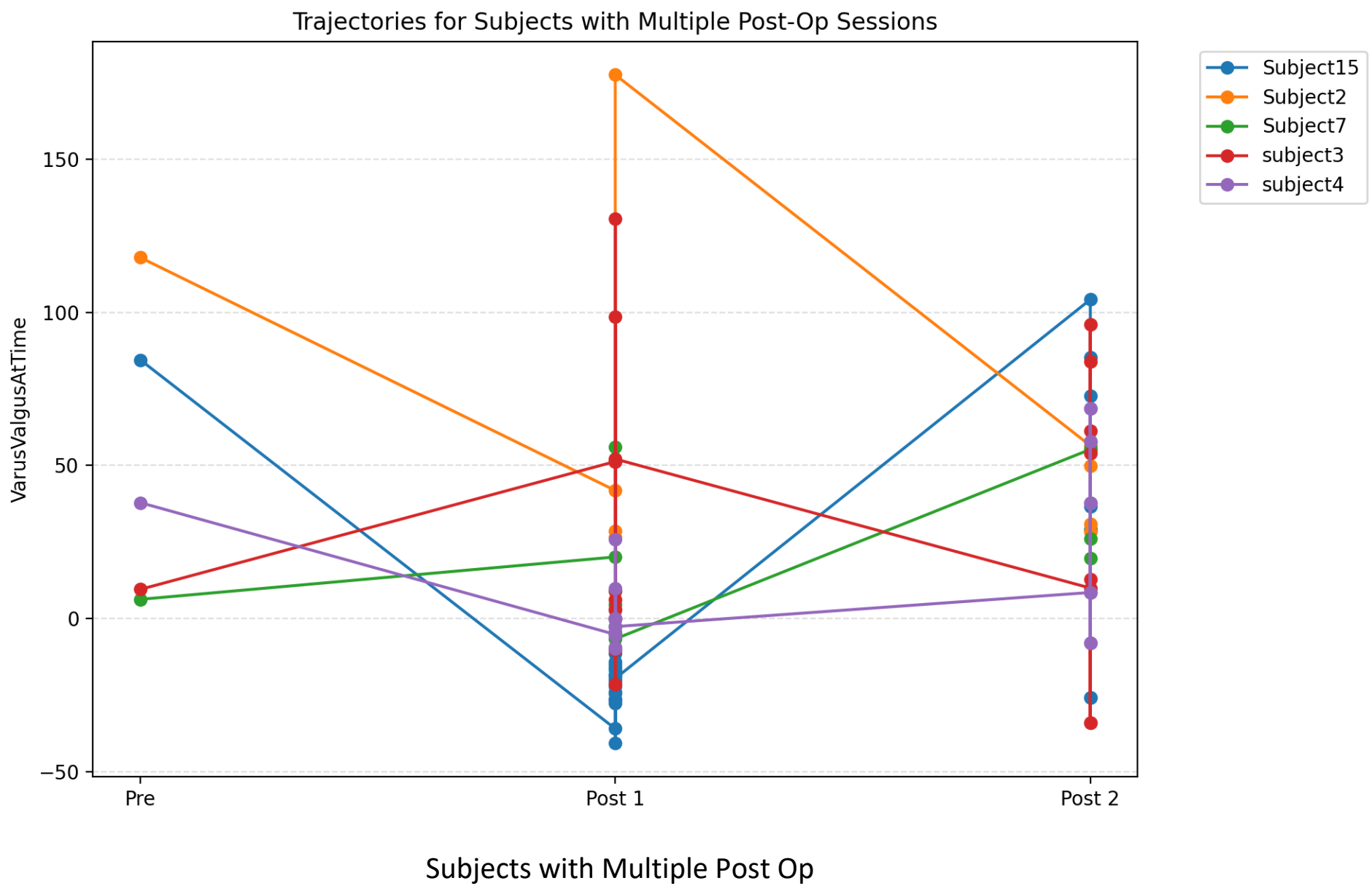
For Knee Subjects - Changes if Varus Valgus for Pre Op to Post Op


Subject-wise Change in Varus/Valgus from Pre-Op to Post-Op
VarusValgusAtTime
140
120
100
80
60
40
20
0
Pre-Op
Post-Op

Interpretation

- Using a conventional significance threshold of alpha=0.05*alpha*=0.05, neither the paired t*t*-test (papprox0.098*papprox*0.098) nor the non-parametric Wilcoxon signed-rank test (papprox0.135*papprox*0.135) reaches statistical significance.
- This means we do not have sufficient evidence to claim a systematic change intextVarusValgusAtTime*textVarusValgusAtTime* from pre-op to post-op across the subjects measured.


Trajectories for Subjects with Multiple Post-Op Sessions
VarusValgusAtTime
150
100
50
0
−50
Pre
Post 1
Post 2
Subject15
Subject2
Subject7
subject3
subject4
Subjects with Multiple Post Op

What this tells us

- Group-level: the average change is negative but moderate (≈-24 deg) and not statistically reliable with this sample size (n = 15).
- Individual-level: variability is high; some subjects improve (negative differences), others worsen (positive differences).
- No extreme outliers distort the analysis, so the non-significant result is not due to a single rogue value.
- Longitudinally, subjects with multiple post-op visits show differing paths—some continue to drift, others stabilize.